$D: x = \frac{9}{\sqrt{5}}$; $D': x = \frac{-9}{\sqrt{5}}$

De sommets A(3 , 0) ; A'(-3 , 0)

B(0 , 2) ; B'(0 , -2)

b) $(E): \frac{x^2}{4} + \frac{y^2}{9} = 1$

$b > a$

$F(0, \sqrt{5})$; $F'(0, -\sqrt{5})$

$D: y = \frac{9}{\sqrt{5}}$; $D': y = -\frac{9}{\sqrt{5}}$ $, e = \frac{\sqrt{5}}{3}$

De sommets B(0 , 3) ; B'(0 , -3) ; A(2 , 0) ; A'(-2 , 0)

c) $(E): x^2 + \frac{y^2}{25/9} = 1$

$a = 1$; $b = \frac{5}{3}$; $c = \sqrt{b^2 - a^2} = \frac{4}{3}$

$e = \frac{4}{5}$

$F\left(0, \frac{4}{3}\right)$; $F'\left(0, -\frac{4}{3}\right)$

$D: y = \frac{25}{12}$; $D': y = -\frac{25}{12}$

De sommets principaux $B\left(0, \frac{5}{3}\right)$; $B'\left(0, -\frac{5}{3}\right)$

De sommets secondaires A(1 , 0) ; A'(-1 , 0)

Exercice 13

$M(z) \to M'(z') avec\ z' = \frac{1}{z}$

1) $I = M * M'$

$z_I = \frac{z + z'}{2} = \frac{1}{2}\left[R.e^{i\theta} + \frac{1}{R}.e^{-i\theta}\right]$

$z_I = \frac{1}{2}\left[R(\cos\theta + sin\theta) + \frac{1}{R}(cos\theta - sin\theta)\right]$

$z_I = \frac{1}{2}\left(R + \frac{1}{R}\right).cos\theta + \frac{1}{2}\left(R - \frac{1}{R}\right)sin\theta.i$

Qarray.tn -Aqra Blech- Qarray.tn
Qarray.tn -Aqra Blech- Qarray.tn